From the Director

This past year has been a productive one for University of Arizona Coconino Cooperative Extension County (CCCE) with the addition of many new employees. We conducted educational programs and provided direct assistance to Coconino County residents in the areas of 4-H youth development, animal science, horticulture, natural resources, and family consumer and health sciences.

We have five new faculty and staff at CCCE this year: Extension Agent Christy Stuth, Assistant in Extension Joshua Farella, Instructional Specialist Gayle Gratop, Extension Agent Dr. Isaac Mpanga, and Instructional Specialist Lorie Cavalli. I would like to introduce you to our new faces in this report.

Cooperative Extension greatly appreciates the financial support, office space, and services provided by the Coconino County Board of Supervisors. With Coconino County’s continued support, CCCE is confident we can continue to offer high-quality educational programs making the future brighter for Coconino County residents.

Regards,

Hattie Braun
Coconino County Extension Director
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Because of Coconino County Cooperative Extension, in 2019...

- 213 youth were enrolled in Coconino County 4-H Club Programs. These youth were supported by 47 volunteer adult leaders. The youth were enrolled in a variety of projects including small and large livestock, horse, public speaking, leadership, Cloverbuds, shooting sports, and livestock judging.
- 12 youth gained experience in Science, Technology, Engineering, and Math as members of the Route 66 4-H STEM Club.
- The Positive Discipline Program educated 43 parents in a 4-week course that teaches positive child behavior management strategies.
- 92 active Coconino Master Gardener volunteers contributed 4,891 hours of service to their communities.
- The Northern Arizona Homeowners Guide to Identifying and Managing Invasive Plants had 28,600-page views. This website was developed by Coconino Master Gardeners.
- 11 Havasupai families in the remote village of Supai received home visits that focused on early childhood development, parenting, and family well-being.
- 162 county residents learned about sustainable gardening through the Beginning Vegetable Gardening Workshop series.
- Master Gardeners provided 32 educational opportunities to the public.
- 20 youth participated in Horse Camp in Tuba City where they learned the traditional significance of the horse in Navajo culture.
- 311 attendees had the opportunity to visit seven gardens in Flagstaff to learn more about best gardening practices, native and low-water landscapes, and plants that can be grown successfully in northern Arizona.
- 26 people attended the Beginning Rancher Workshop held in Flagstaff.
- 68 youth received dental screenings.
Coconino County Cooperative Extension’s 4-H Youth Development program provides educational and personal growth and development opportunities for children. Our 4-H members develop life skills and gain knowledge through participation in clubs, projects, educational and social events, after-school programs, community service, and career exploration. Teens are taught how to avoid risky behaviors and make good decisions. 4-H has been a fundamental part of CCCE for over 65 years. In 2016, the Coconino Board of Supervisors specifically requested that CCCE revitalize, strengthen, and grow the 4-H program in Coconino County.

Joshua Farella was hired as the 4-H Youth Development Assistant in Extension in November 2019. Mr. Farella has a bachelor’s in Anthropology and a master’s in Geography and Development from the University of Arizona. He has worked in environmental science and youth development for over 10 years at the University of Arizona and in the Tucson area nonprofit community. Before his move to the Coconino office, Mr. Farella worked at the University of Arizona School of Natural Resources and the Environment and at the Cienega Watershed Partnership as a Research Specialist and Program Coordinator, respectively. In these roles, he implemented restoration ecology studies and developed natural resources conservation and restoration-based youth programming and curriculum.

A Flagstaff native, Mr. Farella is working to strengthen the 4-H Program in Coconino County by providing leadership for adult volunteers, increasing opportunities for 4-H youth, increasing the number of 4-H youth that come from families not familiar with 4-H, and creating an atmosphere of inclusion, cooperation, and respect within the Coconino 4-H program.

Adult Leadership
Mr. Farella immediately began working with the 4-H Leadership Council that Kim Horn helped establish in November 2017. Active adult leaders are vital to the 4-H program as this partnership of youth and adults is the heart of the 4-H mission. These youth-adult partnerships are known to be one of the most effective ways to engage both youth and adults in meaningful activities which contribute to positive youth development. Youth involved in positive, meaningful, respectful relationships with adults have been shown to improve skills and competencies while decreasing participation in risky behaviors. When partnering with youth, adults also build skills and simultaneously strengthen the organizations to which they belong.

Coconino County 4-H Clubs
Coconino County 4-H community and project clubs were led by 47 adult volunteers and reached 213 youth. Young members participated in a variety of projects including leadership, livestock and small stock, cavy (guinea pig), horse, sewing and textiles, food preservation, gardening, veterinary sciences, robotics, and shooting sports education. In 2019, there were eleven clubs in Coconino County. The clubs worked on several service projects including making sandwiches for the food bank, trash clean up at Maine Consolidated School, visiting The Peaks, A Senior Living Community, and making cards for residents in nursing homes.

Shooting Sports
Three 4-H adult volunteers traveled to Tucson to attend the Arizona Shooting Sports training so more opportunities in shooting sports can be offered for Coconino County youth. Adult 4-H leader Doug Whitehead attended a 4-H Shooting Sports Training in Georgia and is now a certified Level 2 Coach. Mr. Farella was certified as a pistol instructor and worked on a Shooting Sports Policy Implementation Committee.
Livestock Judging
This is the second year for the Livestock Judging Project coached by Amber Rodgers. Eleven project members attended a judging clinic held at Fresno State University. Eight 4-H members attended the Arizona State Fair and several youth received ribbons for their efforts.

County Roundups
Presenting or speaking before a group or audience is an important life skill to develop. 4-H Public Speaking contests begin at the county level. 4-H members select a topic, research facts, and present timed speeches, graduated in length as required by their age division. 4-H contestants are judged on a variety of criteria. Two county roundups were held for youth to increase their ability to present to an audience and speak in public. The Northern County Roundup was held in Page with 22 youth members in attendance. The Southern County Roundup held in Flagstaff had 37 members participate.

4-H State Horse Contests
The Junior 4-H Horse Show was held in Flagstaff in August with twenty 4-H youth participating. Thirteen 4-H youth qualified for the 2019 Arizona State Horse Show with one youth placing first and another placing second in the Junior English category. Based on 2018 results at the Arizona State Horse Show, seven youth attended the Western National Roundup in Denver, January 2019. The Coconino Hippology Team representing Arizona came in first place in team judging for hippology.

4-H and STEM
4-H STEM was developed for youth to increase their skills in science, technology, engineering, and math. 4-H STEM programs combine the strength of experiential learning and inquiry-based science learning within a positive youth development framework. A 4-H club based on STEM - the Route 66 STEM Club – was started in 2017. This year, twelve youth participated. Each year, the club takes on a challenge project from FIRST LEGO League and the theme for this year was a city shaper challenge asking the youth to address a problem to make their city better. The club designed a project to detect cracks in city streets so that Flagstaff could save money by fixing cracks before they become potholes. The club presented their skit on this problem to Flagstaff City Council and the Public Works Department. One team, the Purple Nebulas, competed in the FIRST Robotics Competition State Championship in Arizona in November.

Coconino County Fair
The Coconino County Fair plays an important role in the growth and development of 4-H youth. There were 120 livestock projects entered into the fair with sales of over $330,000 when 134 animals were sold. 4-H members use their profits from the sale to help fund their education and future livestock purchases. The opportunity to exhibit a
completed project at a show, fair, or other public exhibition is often the highlight of the year for 4-H members. Members develop self-esteem as they show off their accomplishments to the public. 590 projects were showcased at the fair and 81 youth entered projects in the Clubwork Building. Hattie Braun, aided by five Master Gardeners, judged the non-livestock projects entered into the fair. In addition, a Proclamation for 4-H was given by Flagstaff Mayor Coral Evans on August 27, 2020 recognizing the excellence of our 4-H program. August 30 thru September 2 was proclaimed ‘4-H Youth in Coconino County Weekend.’ The City of Flagstaff flew the 4-H flag at City Hall Aug. 27 to Sept. 2.

Long time 4-H leader Connie Lipinski received the Dr. Conley Westover Award to honor her extraordinary leadership and 42 years of service that she has provided to the Coconino County Fair and the livestock auction.

Page 4-H YD
Kristi Schoppmann was hired in 2018 to assist 4-H Youth Development for the northern portion of Coconino County. Page has a long history of 4-H programming and Mrs. Schoppmann grew up in the 4-H program in Page. County funds have allowed her to be the boots-on-the-ground employee in Page to help strengthen the program. This year Page held the Northern Coconino County Round Up on April 6 with 22 youth participating. Page 4-H members participated in a 4-H fundraiser at Lake Powell Ford and over $600 was raised for the Page Livestock Club. The Page club also had a workday at the Page 4-H Animal Complex where many 4-H youth house their animals. The 4-H program in Page saw an increase in available projects. They went from having just livestock projects to offering archery, sewing, photography, and arts and crafts this year.

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Rangelands are extremely important to society for the goods and services they produce and for the ecological services they provide. With almost 12 million acres, more than 85% of the land in Coconino County is owned by Tribal Trust Land, Arizona State Land, or Federal Agencies; most of which is rangeland. Coconino County is the second largest producer of beef cows in the state of Arizona (Census of Agriculture, 2017). There is a need to balance natural resources with livestock grazing, particularly on public lands administered by government agencies. Coconino County Cooperative Extension (CCCE) educates land managers and livestock producers on working landscapes in order to optimize rangeland resource sustainability while maximizing livestock production profits. Andrew Brischke is the Area Assistant Agent for Agriculture and Natural Resources. He has a 20% appointment in Coconino County and an 80% appointment in Mohave County.

**Range and Livestock Programs**

Workshops are held that teach a variety of subjects relating to rangeland management, monitoring, livestock production, and other identified needs requested by stakeholders. CCCE collaborated with Utah State University Extension to host the AZ/UT Range Livestock Workshop and Tour with over 400 participants over the course of this three-day event. Additionally, the collaboration produced two other workshops: The Cowman’s Reproduction Workshop and The AZ/UT Invasive Weeds Workshop.

**2019 Range and Livestock Program Highlights**

Mr. Brischke developed a two and a half-day Artificial Insemination (AI) Clinic hosted at The University of Arizona’s Experimental Ranch, the V Bar V. The AI Clinic allowed practitioners to learn the AI process with classroom style lectures as well as hands-on practice utilizing a variety of tools including live cows. Other workshops hosted by CCCE included a two-day Vegetation GIS Data System (a rangeland monitoring application) Training for the US Forest Service as well as an additional training for a private consultant working with Diablo Trust. The Beginning Rancher and Farmer Workshop was hosted in April with 26 participants attending.

Two additional workshops hosted by CCCE include a two-day Rangeland Management Workshop and Tour on the Hualapai Reservation, a Monitoring Workshop and Livestock Nutrition Workshop on the Navajo Reservation, and the annual Coconino County Rangeland and Livestock Workshop in Flagstaff, AZ.

**Conservation Group Participation**

In addition to workshops, CCCE is an active member and advisor to many conservation groups throughout the county. Some of the major partnerships include advising the Coconino Natural Resource Conservation District, Grand...
Canyon Trust Research and Stewardship Partnership, and Diablo Trust. Mr. Brischke also participates in the Forage Research Study Group monitoring program, a collaborative monitoring effort with the Natural Resource Conservation Service, Arizona Game and Fish Department, and local ranchers.

Youth Programming
The Natural Resource Conservation Workshop for Arizona Youth (NRCWAY) is a statewide annual camp. Youth in grades 8-12 attend a weeklong camp at James 4-H Camp located on Mingus Mountain to learn about different natural resource topics. In 2019, 28 youth campers participated in NRCWAY. Mr. Brischke also provided valuable support for 4-H youth with livestock at the Coconino County Fair.

Mr. Brischke began his work as an Extension Agent in Coconino and Mohave Counties in February 2016.

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MORE AGRICULTURE AND NATURAL RESOURCES PROGRAMMING AND STAFF

NAVAJO TRIBAL EXTENSION PROGRAM
The Navajo Nation consists of 27,000 square miles in Arizona and 18,661 of those square miles are in Coconino County. Grey Farrell, the Federally Recognized Tribal Extension Program or FRTEP Program Coordinator, works in this vast region. His priority areas include livestock management, youth development and leadership, healthy living, farming, and home gardening. Mr. Farrell plays a vital role in providing Navajo producers with information to expand their knowledge so that they can re-engage in traditional practices of farming. He is able to provide Extension program delivery in the Navajo language which is invaluable to older clientele. Extension work with Native American communities is highly personalized and dependent upon personal and professional relationships.

Navajo Beef Program
Mr. Farrell recruits, educates, and certifies producers for the Navajo Beef Program which has been ongoing since 2013. Over 70 producers are certified annually as a result of training and education on beef quality assurance guidelines, record keeping, marketing, and range management. Educational tours, workshops, and field days were held for producers, grazing officials, and government officials to expand their knowledge and improve their product.

Youth Programming
In the summer, Mr. Farrell offered a successful two and a half-day Song of the Horse Camp where twenty youth campers learned the traditional significance of the horse in Navajo culture and shared some horse songs. The youth also learned about equine feeding and nutrition, conformation and body condition, and health care from Dr. Betsy Greene, University of Arizona Equine Extension Specialist. The campers also learned about the horse hoof, both shoeing and care. Riding instructors taught the youth proper body and leg position, and balance. All campers improved their riding skills and went home with more confidence. Mr. Farrell and youth specialists from the Navajo Nation have developed a program to work with youth participating in gymkana and junior rodeo events. He hopes to inspire Navajo youth to become interested in natural resources, livestock, and equine activities.

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ARIZONA PROJECT WET
Thanks to funding from the City of Flagstaff, Project WET in collaboration with CCCE, was able to hire Cara Corbin to teach water conservation to students in Flagstaff area schools using the Arizona Project WET curriculum. A total of 222 students were engaged by three teachers in the school water audit curriculum unit. Those students collectively saved a projected 79,017 gallons of water annually through their actions. AmeriCorps Service Members Revecca Rioux and Mialana Murrieta assisted with these audits. Partnering with the local Full STEAM Ahead Program within Flagstaff STEM City, Ms. Corbin engaged 100 students in 4 classes in two different facilitated sessions: one on the groundwater system and one on the concept of a watershed. Lorie Cavalli was hired in December 2019 to continue this important work in natural resource education for local schools. Ms. Cavalli has an M.Ed. in Curriculum and Instruction from Arizona State University. She plans to bring new environmental education and conservation programs to the Flagstaff region.

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COMMERCIAL HORTICULTURE/SMALL ACREAGE
Isaac Mpanga began work with the University of Arizona Cooperative Extension on December 9, 2019. Dr. Mpanga is a citizen of Ghana where he earned his Bachelor of Science in Agricultural Education. Isaac then earned two degrees from the University of Hohenheim, near Stuttgart, Germany: his Master of Science (2015) and Ph.D. (2019) in Crop Sciences and Agriculture Sciences, respectively. His work focused on fertilization strategies to improve the performance of plant growth-promoting soil microorganisms.

Prior to studying in Germany, Isaac worked for the Ghana Education Service as an Agriculture Teacher for several years. He also worked for the Ghana Cocoa Board and the University of Energy and Natural Resources as an intern. Dr. Mpanga’s Extension programs will seek to improve and innovate small farm production practices and explore and research new opportunities for small scale fruit and vegetable production. Isaac is housed in the University of Arizona Cooperative Extension office in Camp Verde. He has a 20% appointment in Coconino County.

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Farmers meeting with Coconino County Agent W.M. Brechan in Doney Park, 1954, Coconino County Cooperative Extension Service archives
Horticulture programs at Coconino County Cooperative Extension (CCCE) are some of the most popular programs we offer. These programs use research-based information along with experts from the University of Arizona, other agencies, and our trained volunteers to help people live more sustainable lives in Arizona’s high elevation communities. CCCE has a vibrant and active Master Gardener program with an equally enthusiastic volunteer force. This program helps to educate participants on a wide variety of horticultural topics including plant selection, pest identification, high elevation gardening and general urban horticultural concerns. These volunteers are vital in providing accurate information to community gardens, school gardens, beginning gardeners, nonprofit gardens, and the residents of Coconino County.

Coconino County Master Gardener Program
One Master Gardener class was offered this year in Flagstaff. Thirty-two students took and passed the Master Gardener Training Course and thirteen became certified Coconino Master Gardeners. In 2019, 92 certified and trainee Master Gardeners contributed 4,891 volunteer hours in our community. Extension Master Gardener Timothy Ellsworth Bowers tracked their volunteer efforts. Master Gardeners volunteered at the Coconino Extension office, with the Coconino Master Gardener Association, and at the Coconino County Fair. They volunteered at many nonprofits including the Arboretum at Flagstaff, the Museum of Northern Arizona, Riordan Mansion State Historic Park, and the Olivia White Hospice Home Garden. They offered 32 classes and presentations to the public. To maintain certification, Master Gardeners need to continue learning. They accumulated 468 education hours. The 12th annual Coconino Master Gardener Recognition Picnic was held at Viola’s Nursery and Flower Garden and new Master Gardener trainees received their Coconino Master Gardener badges.

Coconino Extension Master Gardeners Education Programs and Projects

Beginning Gardener Workshop Series
A new, free Beginning Vegetable Garden Class series offered ten classes from spring to late summer. These classes provided information on topics such as how to develop good garden soil, growing greens, season extenders, understanding pests and diseases, how to set up a drip-irrigation system, and composting. Instructors were pulled from the Master Gardener Program. Over 160 county residents attended these classes. A highlight of the series was a class on cooking from the summer garden. Recently retired chef and newly certified Coconino Master Gardener Frank Branham cooked and offered tastings of six different recipes using summer produce.

Invasive Plant Information for Homeowners
Coconino Master Gardeners are the driving force for the website A Northern Arizona Homeowner’s Guide to Identifying and Managing Invasive Plants.
The site, developed in 2016, provides Coconino County residents with timely information to help them with their invasive and weedy plant problems. In 2019, the website had 28,600-page views. The site can be found at: www.nazinvasiveplants.org. Three presentations were given to neighborhood groups and HOAs on using the site. Seven more invasive or weedy plants were added to the website. Master Gardener Dorothy Lamm, one of creators of the site, led volunteers in horehound and Dalmatian toadflax removal at the Settler’s Garden at the Museum of Northern Arizona.

**Other Gardening Presentations, Workshops and Activities**

- 77 people attended the Community Seed Swap at the extension office. This was a joint event with Flagstaff Foodlink, the City of Flagstaff Sustainability Program, and Northern Arizona University.
- 58 people attended the garden education booth at the Museum of Northern Arizona’s seedling swap. They got answers to their gardening questions and received tips on best gardening practices.
- During the Earth Day celebration on April 20th, over 100 people made a ‘plant greens in your greens container’ take-home garden where plastic green containers were repurposed into mini-container gardens for growing lettuce and other greens.
- 90 households attended the East Valley Baptist Church Garden Open House where Master Gardeners answered questions. Pastor Daryl Bennet became a Master Gardener in 2016. He, along with several Master Gardeners, have developed a demonstration garden and offered ten gardening workshops at this site.
- Students attending the Tuba City Summer Reading Program and students at the Tuba City Boarding School attended two Garden Educational Events where the youth learned about seeds, read a book about seeds, and planted seeds to take home. The youth also put together planters to decorate the front of the Tuba City Library.

**Coconino Master Gardener Association**

The Coconino Master Gardener Association (CMGA) provides invaluable assistance to the Coconino Master Gardener Program. The mission of the CMGA is to support the University of Arizona Cooperative Extension by providing researched-based information on environmentally responsible gardening and landscaping to the public. It provides Master Gardener graduates with continuing education and volunteer opportunities while increasing visibility and participation in the Master Gardener Program. The CMGA blog had 207,331 views with a monthly average of about 4,000 during the garden season and is managed by Master Gardener Loni Shapiro. The CMGA Facebook page continues to grow and inspire gardeners with awesome pictures, gardening ideas and event reminders. The page has 387 followers and is administered by Master Gardener Tammy Valdovino. This year, the CMGA celebrated their 10th Anniversary of assisting CCCE.

CMGA projects included:

**Gardening Etc.**

Two Coconino Master Gardeners took over writing and editing the weekly column Gardening Etc. for the Arizona Daily Sun, a northern Arizona newspaper. Jackee Alston and Cindy Murray supplied 52 gardening columns providing northern Arizona with best gardening practices and information. The Arizona Daily Sun has over 12,200 subscribers. This column appears in Saturday’s paper.
**Grow Flagstaff! Seed Library**

The Grow Flagstaff! Seed Library, located at the Coconino County Cooperative Extension Office, continues to grow with both seeds and members. At the library, residents can “check out” seeds suitable to our short-season growing conditions and learn about seed starting, sowing, growing, and collecting. The library provides local gardeners with access to the most appropriate cultivars for our region of Arizona. We had over 300 people join the library and check out over 1,500 packets of seeds. Master Gardener Jackee Alston gave two seed starting and saving workshops. After-school garden clubs and Northern Arizona University students visited the seed library to learn how the library aids the preservation of locally adapted seed cultivars.

**Plant Sale and Garden Festival**

Coconino Master Gardener volunteers organized this garden event held June 17 at Fort Tuthill County Park in Flagstaff. Ten vendors participated in selling plants and garden related items. Master Gardeners were available to answer gardening questions. Over 400 people attended this fun event.

**Flagstaff Tour of Artful Gardens**

CMGA, with the support of Viola’s Nursery and Flower Garden, offered this garden tour in July. 311 attendees had the opportunity to visit 7 gardens in Flagstaff to learn more about best gardening practices, native and low-water landscapes, and plants that can be grown successfully in northern Arizona. This included native plant, vegetable, and ornamental gardens both large and small.

**AmeriCorps Site**

The Coconino County Cooperative Extension Office partnered with AmeriCorps, a national service organization, as a site for two AmeriCorps members. Revecca Rioux and Mialana Murrieta worked on a variety of projects including school gardens, the Beginning Gardening workshop series, the Grow Flagstaff! Seed Library, and several youth gardening education projects including two visits to the Tuba City Library to work with youth in the summer reading program. They also assisted with many 4-H projects and events.

**Online Master Gardener Program**

Gayle Gratop started in April to develop the Online Master Gardener program. With many requests for the Master Gardener Program in small communities in Coconino County as well as other rural communities in northern Arizona, we received funding to develop an online version of the Master Gardener class. Arizona Cooperative Extension provided funding through the Extension Strategic Initiative Program. Before joining CCCE, Ms. Gratop was the Horticulturalist at the Arboretum at Flagstaff for five years. She has also worked for local government agencies including the National Park Service as a Field Biologist at both Grand Canyon National Park and Canyon de Chelly National Monument and for the Coconino National Forest as a Range Technician. Gayle will earn her M.S. in Agricultural Education in May of 2020. She holds a B.S. in Environmental Studies from NAU and a certificate in Horticulture Production from Yavapai College. The online pilot class, set to begin in February 2020, had 55 students registered and 30 on the wait list. This new innovate approach to the traditional Master Gardener training will allow students in rural areas of Coconino County to participate in this valuable program without traveling to Flagstaff. There are 13 students enrolled from rural areas across the county, including Ash Fork, Grand Canyon, Page, Leupp, Moenkopi, and Tuba City. The aim is to grow this program, making the Master Gardener training accessible not only to our rural county residents, but also to residents who may not otherwise be able to participate in the traditional Master Gardener training due to other commitments.

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Family Consumer and Health Sciences

Family Consumer and Health Sciences (FCHS) Cooperative Extension works to strengthen families, promote healthy lifestyles, and wise financial decisions, and develop community leaders by taking our programs to community centers, schools, churches, and other venues to reach different audiences. Programs are conducted by the University of Arizona county-based extension agents and campus-based extension specialists from the Norton School of Family Consumer Sciences and the Department of Nutritional Sciences. In Coconino County, FCHS programs include positive parenting, local food systems, food safety, dental screenings, and early childhood education.

Christy Stuth was hired in May 2019 as the Family Consumer and Health Sciences Area Agent for Coconino and Mohave Counties. Christy Stuth has a bachelor’s in Dental Hygiene Science and a Master of Public Health with a Health Services Administration concentration from the University of Arizona. She worked for nearly 10 years as a private practice dental hygienist before starting her career with the University of Arizona Cooperative Extension network.

Mrs. Stuth comes to Coconino County Cooperative Extension from her previous position as a Dental Technical Expert and Program Coordinator at Cochise County Cooperative Extension. In her previous role, Christy used her dental hygiene credential to provide dental screenings, preventative fluoride, and dental education for women and children. Her experience coordinating and implementing the dental program cemented her love for community programming and Cooperative Extension. In Christy’s new position, she will focus on developing programs for communities within Coconino and Mohave Counties. Her areas of interest include child development, public health, financial education, and public safety.

Mrs. Stuth brought two grants funded by Arizona Cooperative Extension’s Extension Strategic Initiative Program (ESIP) to Coconino County. Jessica Reeder was hired to coordinate the Positive Discipline program, a series of classes for parents that teaches parents positive child behavior management strategies that may prevent maltreatment. Participating parents gained the ability to recognize their child’s needs and learned the skills necessary to adopt more positive and productive behaviors. Forty-three parents completed the 4-week course at Leupp Elementary School. Also funded through an ESIP grant was a program for oral health. Brianne Maloney provided dental screenings through the First Smiles silver diamine fluoride program and 42 children received preventative fluoride. In addition, 68 youth received fluoride and oral health screenings, and 78 adults received oral health education and screenings.

FoodCorps

A separate grant was submitted to Cooperative Extension ESIP and funding was received to develop the Coconino County Food Security and Wellness Project allowing CCCE to hire a FoodCorps member to work in a low-income school in Coconino County. The mission of FoodCorps is to connect children to healthy food in schools through gardening, cooking, and tasting since children love the food they grow and make themselves. FoodCorps also works with cafeteria staff to create a cafeteria that steers students toward healthy eating. FoodCorps is part of the AmeriCorps service network.

Francisca Alvarado was hired as the FoodCorps Service Member to work in Kinsey Elementary School. She started a free produce pickup at Kinsey Elementary School where she is a FoodCorps Service Member.
her service on August 1. Ms. Alvarado has worked with 91 students at Kinsey, teaching gardening and cooking classes, teaching them methods for composting, modeling healthy eating in the school cafeteria, and being a friend to every student. Within weeks of joining Kinsey Elementary School, she received the Kinsey Crown for her dedication to the students. Her service continues through July 15, 2020.

Havasupai Dream Keepers Home Visiting Program

The Dream Keepers program is funded by a three-year grant (July 2016-June 2019) from Arizona First Things First to Coconino County Cooperative Extension. First Things First is Arizona’s only public funding source dedicated exclusively to early childhood. The Dream Keepers program addresses needs identified by the First Things First Coconino Region 2014 Needs and Assets report and the 2016 Report Update which provided a snapshot of the current status of children and families in the region. One recommendation from the 2014 Report states, “Support is needed for parents as their children’s first teacher: With low rates of enrollment in child care and education settings in some areas, and low levels of adult educational attainment in some of those same areas, parents are likely to need additional guidance to help them make sure their children arrive at kindergarten ready to learn.” The Havasupai Dream Keepers home visiting program worked with families to engage with their children and to increase their understanding that the time they spend with their children in these early years pays off to give their children “better life prospects across...social, physical, academic and economic outcomes.”

Dream Keepers staff included two CCCE Parent Educators, Pat Watahomigie and Dalla Wescogame, and the Supervisor/Parent Educator, Diane Lenz. Diane Lenz has a strong background in early childhood and home visitation program management in Arizona Native American communities.

11 Havasupai families in the remote village of Supai received home visits focused on early childhood development, parenting, and family well-being in 2019. The Parents As Teachers curriculum was used to provide two home visits each month and the opportunity for families to participate in a monthly family Group Connect. This grant was not renewed.

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Coconino County Cooperative Extension

Our Mission: As the outreach arm for the University of Arizona, Cooperative Extension enhances the lives of people and communities in Coconino County through Education, Research, Engagement and Creativity.

Our Vision: We envision strongly connected communities invested in the betterment of every individual.

As the University of Arizona in Coconino County:

- We empower people to expand their capabilities to improve their lives.
- We are a well-known, effective, and accessible educational resource for all communities.
- We are a trusted partner in the community for leadership education.
- We develop strong, capable leaders in all communities.
- We are recognized experts for developing and disseminating research-based information.
University of Arizona in Coconino County

Visiting University of Arizona Faculty—2019
Renee Carstens, Assistant Agent, 4-H Youth Development, Gila County
Dr. Mike Crimmins, Associate Specialist and Associate Professor, Climate Science
Steven Gouker, Assistant Agent, 4-H Youth Development/Agriculture Production, Navajo County
Dr. Josh Grace, Assistant Area Agent, Livestock/Range, Apache and Navajo Counties
Dr. Betsy Green, Extension Specialist, Equine/Horse
Ashley Hall, Area Assistant Agent, Agriculture and Natural Resources, Gila and Pinal Counties
Christopher Jones, Agent, Agriculture and Natural Resources, Gila County
Dr. Jerry Lopez, Assistant Extension Specialist, 4-H STEM Youth Development
Dr. Bill McCloskey, Extension Specialist, Weed Science
Dr. Steven Poe, Professor and Academic Program Coordinator, Agricultural and Biosystems Engineering
Dr. Paula Rivadeneira, Extension Specialist, Fresh Produce Safety, Yuma Agricultural Center
Kerry Schwartz, Director and Associate Specialist, Arizona Project WET, Water Resources Research Center
Jeff Schalau, Agent, Agriculture and Natural Resources, Yavapai County
Dr. Steve Smith, Associate Professor, School of Natural Resources and the Environment
Trent Teegerstrom, Associate Director for Tribal Extension Programs and Agricultural Economics Extension Specialist
Ashley Wright, Area Assistant Agent, Livestock, Cochise, Pima and Santa Cruz Counties

University of Arizona Faculty and Staff that contributed content to the Online Master Gardener Class—2019
Gloria Blumanhourst, Volunteer Systems Manager
Christopher Jones, Agent, Agriculture and Natural Resources, Gila County
Dr. Ursula Schuch, Professor and Specialist, Horticulture
Dr. Jeffery Silvertooth, Associate Dean and Director, Extension and Economic Development
Jenny Weber, Assistant in Extension, Pesticide Education

Cover photos clockwise from upper left: Gayle Gratop tabling at the Leupp Farmers’ Market, a 4-H member displays her banner for winning Reserve Champion Junior Poultry Showmanship, fall color in Doney Park*, the Master Gardener class visits the Colton Community Garden at the Museum of Northern Arizona to learn about season extenders, fall snow on apples*, poultry showing at the Coconino County Fair, cattle at the V Bar V Ranch, a summer harvest of produce*.  
*photo credits go to Coconino Master Gardener Cindy Murray